

4. Dominik

Program Name: Dominik.java

Input File: dominik.dat

Your professor Dr. Dominik has assigned you some homework involving the differenced in time between given historical events. You will be given a “study sheet” of historical events and the dates they occurred. Then, for your homework assignments you will be given pairs of events, and you need to determine the number of days between them.

Input: The input will begin with two space-separated integers, n ($0 < n \leq 1000$) and m ($0 < m \leq 1000$), denoting the number of dates and test cases to follow, respectively. Each of the following n lines will contain a date in the format (yyyy/mm/dd), followed by a space, followed by a name of a historical event. The following m lines will contain the names of two events, separated by a colon. Note that the names of historical events may contain spaces.

Output: For each pair of events, output the number of days between them, as an integer, with commas where they should appear.

Sample input:

```
4 3
1776/07/04 Declaration of Independence Signed
1564/04/23 William Shakespeare Born
1804/05/18 Napoleon Gains Power in France
1959/01/03 Alaska Becomes 49th State
Declaration of Independence Signed:Napoleon Gains Power in France
Declaration of Independence Signed:William Shakespeare Born
William Shakespeare Born:Alaska Becomes 49th State
```

Sample output:

```
10,179
77,504
144,160
```